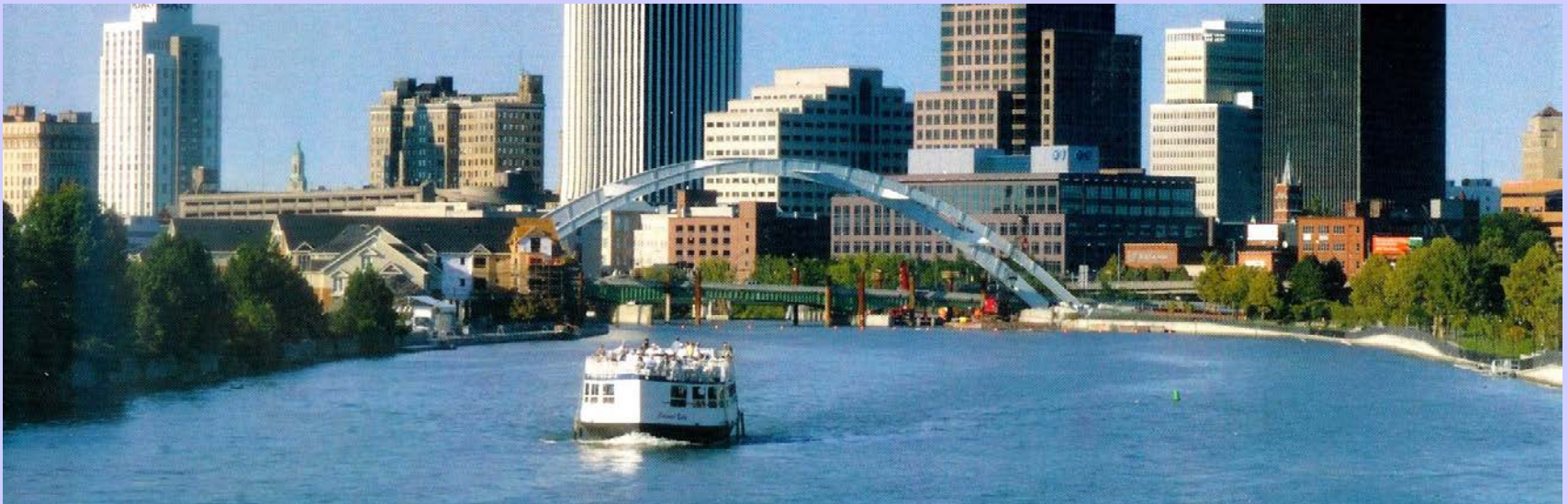


# 2014 Cleaning & Lining of Water Mains



# Public Information Meeting Outline

- Key Water Bureau Personnel & Contractor
- Overview of Rochester's Water System
- What is Cleaning and Lining?
- How is it Done?
- Things to Know About the Project
- Questions?

## Key Water Bureau Personnel

- Director of Water: Robert Morrison
- Managing Engineer: Enrique Maisch
- Project Manager: Pat O'Connor
- Project Designer: Jamie Treuthart
- Field Engineer: Jamie Treuthart

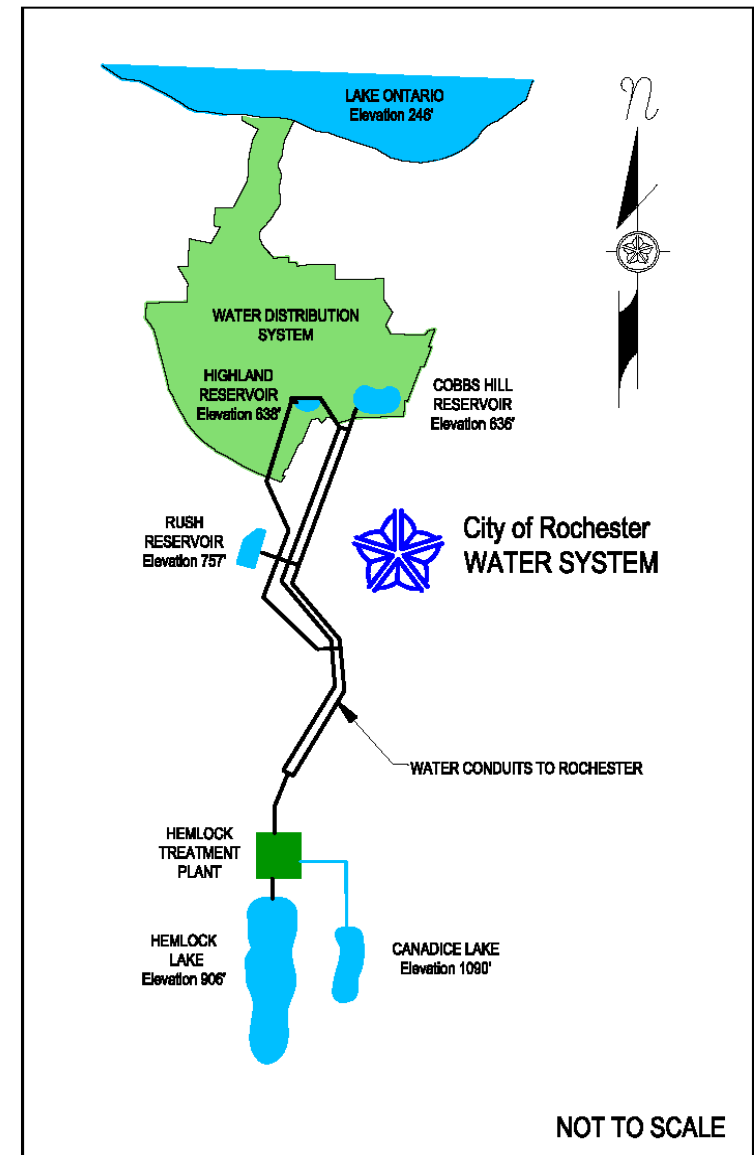


## Contractor Heitkamp, Inc.

Heitkamp has performed highly specialized pipeline rehabilitation services for over four decades. They have successfully completed water main cleaning & lining projects in Rochester for the past 8 years.

# Rochester's Water System

- The Water Bureau has been providing water to the City since 1876.
- The City's primary water sources are Hemlock and Canadice Lakes.
- Lake Ontario is a supplemental water source.
- Water is treated and filtered before it is sent to our customers.



# Water System Overview

- Over 650 miles of transmission and distribution water mains.
- Before the mid-1950's metallic water mains were installed without a corrosion inhibiting lining.
- Water main sizes from 1-inch diameter to 60-inches diameter.
- Almost 60,000 water services.
- Approximately 27 million gallons of water is used in the City every day.



e0000261.jpg Rochester Municipal Archives

## Rochester's Water Main Cleaning & Lining Program

- First performed on Rochester's water mains in 1944.
- Approximately 300 miles of water mains ranging in size from 4" diameter to 38" diameter have been cleaned & lined.
- Approximately 7 miles of water main are cleaned & lined each year.
- Work also includes replacement of old main line valves.
- The City invests approximately \$2 million annually to clean and line its water mains.

# What is Cleaning & Lining?

- It is a process by which the interior of water mains are scraped clean of deposits and then coated with a cement mortar lining.

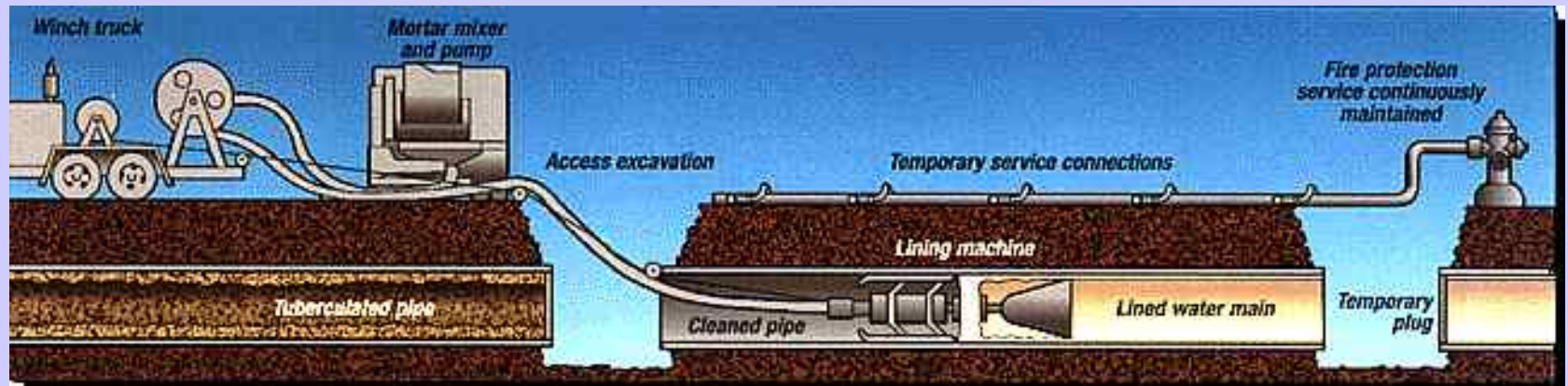


# Why Clean and Line?

- Less costly and disruptive than total pipe replacement. (\$50/ft. vs \$220/ft.)
- Improves water quality.
- Increases water flows for fire protection.
- Protects the pipe from future rust build-up.
- Extends the life of the pipe.
- Reduces maintenance and pipe leakage.
- Improves system reliability



# How It's Done



# Access Hole



# Access Hole Plated



# Cleaning Tools and Winch Truck



# Cleaning Scraper



# Squeegee Used to Remove Water & Debris Dislodged by Scraper



# Pumping Cement Mortar



# Spray Head and Trowel



# Bypass Pipe Connection to Existing Water Main at Hydrant



# Temporary Fire Hydrant on Bypass Pipe



# Temporary Service Connection



# Temporary Service Pipe Extended to House



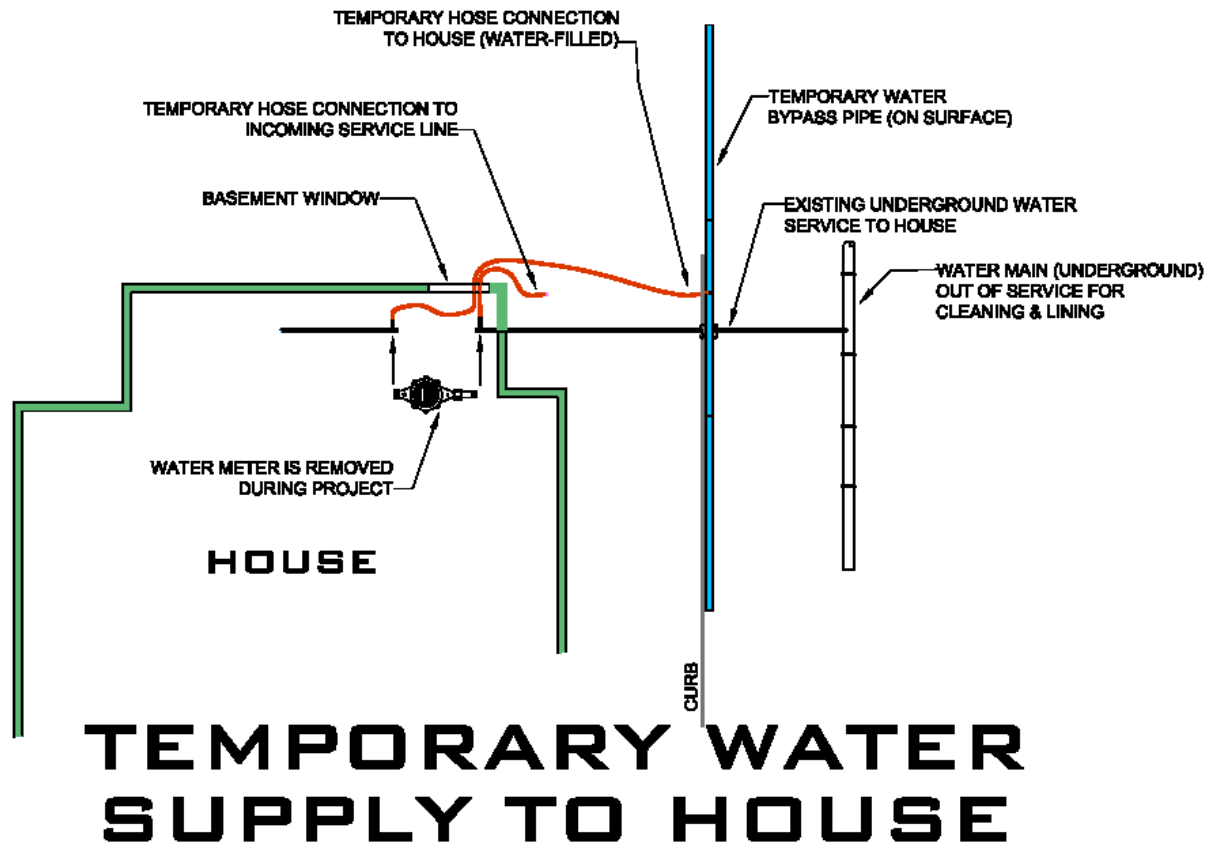
# Driveway Ramps



# Temporary Service Into Basement Window



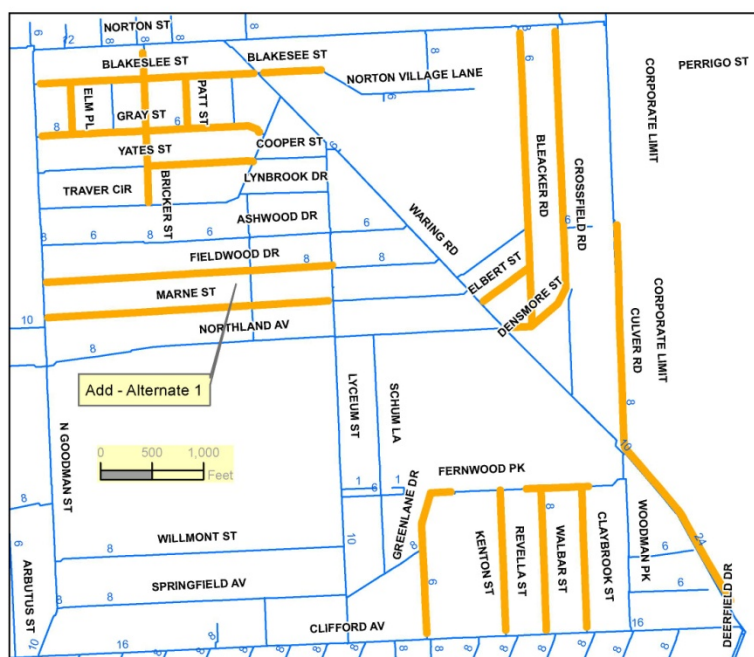
# Temporary Service Schematic



# 2014

## Cleaning & Lining Project

- 29,000 Feet of 4", 6", 8", 10" & 12" Water Mains
- Construction Start: Late May 2014
- Construction Completion: Mid-Nov. 2014



**BASE BID SECTIONS 1 THROUGH 7**  
Bricker St., Blakeslee St., Elm Pl., Patt St., Gray St., Yates St., Bleacker Rd., Crossfield Rd., Ebert St., Greenlane Dr., Fernwood Pk., Revella St., Walbar St., Claybrook St., Culver Rd.  
**ADD - ALTERNATE 1 -** Fieldwood Dr., Marne St.

### Legend

— Water Main to be Cleaned & Lined



**BASE BID SECTION 8**  
Kilmer St.



**BASE BID SECTION 10**  
Graves, Race & Aqueduct Sts.



**ADD-ALTERNATE 3**  
S. Union St.



**ADD-ALTERNATE 2**  
Corrigan St.



**BASE BID SECTION 9**  
River Heights Cir.



## Water Mains to be Cleaned and Lined in 2014

Prepared By:  
DEPARTMENT OF ENVIRONMENTAL SERVICES  
BUREAU OF WATER

Date:  
April 2014

# Things to Know

- Advance notice (via door hanger).
- Water meters will be removed.
- Contractor needs access to your meter to maintain water supply to your home and make sure cement does not plug your water service.
- No charge for water usage. (Cost of Consumption is \$3.38/1000 gal)
- Normal quarterly base charge will still be applied to bill. (\$21.06/Qtr, Typical Residence)



# Things to Know

- Temporary bypass pipes are disinfected and tested by the Monroe County Department of Public Health prior to activation.
- Access holes in the street will be covered with steel plates at the end of each work day.
- Traffic flow will be maintained.
- Access to all driveways will be maintained.



# More Things to Know



- Water supplied via the temporary pipes is the same water that is in the water main.
- The lined main will be disinfected and tested by the Monroe County Health Department before it is placed back in service.
- The Contractor will coordinate with residents to reinstall the water meter and remove the temporary service.
- All excavations will be permanently backfilled.
- Surfaces restored to pre-construction condition.

## Contact & Information

- Concerns or problems should be reported to the Water Bureau Dispatch Office (428-7500), which is staffed 24 hours a day, 7 days a week, 365 days a year.

**428-7500**

- Additional information and weekly construction updates will be available at:

**[www.cityofrochester.gov/cleaningandlining](http://www.cityofrochester.gov/cleaningandlining)**

# Questions?

